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ABSTRACT

The following estimates in this document are key statistics about education reported early in the 1991-92 school year: (1) the numbers of students in membership, numbers of teachers, and numbers of high school graduates for public and private elementary and secondary schools; and (2) total revenues and expenditures for public elementary and secondary schools. The public school estimates consist of preliminary actual counts, estimates derived by the National Center for Education Statistics (NCES), and imputed values developed by the NCES. Total student membership is estimated to be 47.0 million students for the 1991-92 school year, with some 41.8 million in public schools, compared with 4.8 million students in private schools. Student membership has increased by 1.8 million since fall 1987. Students are taught by 2.4 million public school teachers and 355,000 private school teachers. About 2.3 million public school students and 234,000 private school students are expected to graduate from high school in the 1991-92 school year. Revenues for public elementary and secondary education in fiscal year 1991 are estimated to be $220.1 billion, rising to about $231.3 billion in 1992. The cost of public education is anticipated to be $5,097 per student in membership for the 1991-92 school year. Data are presented in 15 tables. Technical notes explain the data collection and estimation processes. (SLD)

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Early Estimates

December 1991

Public and Private Elementary and Secondary Education Statistics: School Year 1991–92

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Frank H. Johnson
Sharon A. Bobbitt
Elementary and Secondary Education Statistics Division

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U.S. Department of Education
Office of Educational Research and Improvement

NCES 92-032

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December 1991

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The estimates in this publication are key statistics reported early in the 1991-92 school year. They include the number of students in membership, teachers, and high school graduates for public and private elementary and secondary schools, and total revenues and expenditures for the operation of public elementary and secondary schools. The public school estimates consist of three kinds of data: preliminary actual counts for individual states; estimates derived by the states for the National Center for Education Statistics (NCES); and imputed values developed by NCES using a combination of state-specific and national data. Private school early estimates are based on a national probability sample of private schools surveyed in the fall of 1991.

Highlights

- Total student membership (grades prekindergarten through 12) in all the nation's elementary and secondary schools (both public and private) is estimated to be 47.0 million students for the 1991-92 school year. Some 41.8 million of these students attend public schools, compared with 5.2 million students who attend private schools (table 1).

- There were approximately 41.8 million students in the nation's public elementary and secondary schools in fall 1991 compared with 41.2 million in fall 1990. Student membership has increased by 1.8 million since fall 1987 (table 6).

- Private school membership in grades kindergarten through 12 has remained fairly constant in recent years, ranging from 4.9 million students in the 1988-89 school year, to 5.0 million students in 1989-90, 4.9 million in 1990-91, and 4.8 million in 1991-92 (table 2).

- It is estimated that there are 2.8 million teachers in the public and private schools in this school year (1991-92); 2.4 million of these educators teach public school students, while 355,000 teach private school students (table 1).

- The student membership and teacher count data yield pupil-to-teacher ratios for grade levels prekindergarten through 12 of 17.2 for public schools and 14.6 for private schools (computed from data in table 1).

- An estimated 2.5 million students graduated from high school in the 1990-91 school year; 2.3 million of these graduates were from public schools and 247,000 from private schools. An additional 2.5 million students are expected to graduate from high school in the 1991-92 school year; these will include 2.3 million public school students, compared with 234,000 private school students (table 1).

- Revenues for public elementary and secondary education in fiscal year 1991 are estimated to be $220.1 billion (table 11), and they are expected to rise to approximately $231.3 billion in fiscal year 1992. The cost of public education is anticipated to be $5,097 per student in membership for the 1991-92 school year (table 12).

The Early Estimates System

The early estimates system is designed to allow NCES to report selected key statistics early in the school year. The information is collected through contact with public school state education agencies and a sample of private schools. Details of the two systems follow.

The source of universe statistical information about public elementary and secondary education is the Common Core of Data (CCD)--data collected annually by NCES from state education agencies. These data are reported to NCES in March, undergo NCES and state editing, and become available for publication in September--a full year after the beginning of the school year. High school graduate and fiscal data are reported a year later than student and teacher data. In contrast, the estimates of this report are made in December of the school year to which they apply.

Forty-seven states, the District of Columbia, and three outlying areas participated in the public school early estimates survey. The estimates reported here were provided by state education agencies and represent the best information on public elementary and secondary schools available to states at this early stage of the school year. They are, however, subject to revision.

The source of universe statistical information on private schools in the United States is the Private School Survey. The private school universe consists of a diverse population of schools, including those with a religious orientation (for example, Catholic, Lutheran, and Assembly of God) as well as nonsectarian schools that include programs ranging from regular to special emphasis and special education. The private school early estimates is one reporting component of this universe. The basic statistical information included in this data system is collected from all private schools in the NCES universe, and the early estimates are based on a subsample of that universe.

NCES is continuing to examine and evaluate various methodologies to obtain better estimates and improve the data collection system for public and private elementary and secondary education.

Table 1.--Early estimates of key statistics for public and private elementary and secondary schools for grades prekindergarten through 12: School year 1991-92

	Students	Teachers	Graduates	
			1990-91	1991-92
All schools	47,032,084	2,785,646	2,510,625	2,485,349
Public schools	41,838,871	2,431,008	2,263,482	2,250,894
Private schools	5,193,213	354,638	247,143	234,455

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data, Private School Early Estimates System, and Private School Survey.

Table 2.--Early estimates of membership in private elementary and secondary schools, by religious orientation and school level for grades K through 12: Fall 1988 through fall 1991

Characteristic	Fall 1988	Fall 1989	Fall 1990*	Fall 1991
Total	4,873,431	4,955,771	4,878,396	..4,821,110
Religious orientation				
Catholic	2,785,769	2,579,884	2,607,931	2,567,944
Other religious	1,467,350	1,663,310	1,568,621	1,572,911
Nonsectarian	620,312	712,577	701,844	680,256
School level				
Elementary	2,827,753	2,713,939	2,692,879	2,691,842
Secondary	868,297	817,302	835,262	830,539
Combined	1,177,381	1,424,530	1,350,255	1,298,730

. Revised

.. For comparability with student membership in public schools and with previous NCES estimates of student membership in private schools, the 372,103 students in private prekindergarten and nursery schools that have a first grade or higher were included in the early estimate of 5.2 million private school students. In order to estimate the number of private school students in elementary and secondary schools in grades kindergarten through 12, these 372,103 students were removed from the estimate to yield an estimate of 4.8 million.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Private School Early Estimates System, and Private School Survey.

Table 3.--Early estimates of number of teachers in private elementary and secondary education, by religious orientation and school level for grades K through 12: Fall 1988 through fall 1991

Characteristic	Fall 1988	Fall 1989	Fall 1990*	Fall 1991
Total	344,659	342,284	326,718	327,754
Religious orientation				
Catholic	154,714	142,492	137,450	138,070
Other religious	119,130	123,253	115,418	117,576
Nonsectarian	70,815	76,539	73,851	72,109
School level				
Elementary	171,115	155,692	154,889	155,044
Secondary	63,270	63,281	59,068	58,220
Combined	110,273	123,311	112,761	114,491

. Revised

SOURCE: U.S. Department of Education, National Center for Education Statistics, Private School Early Estimates System, and Private School Survey.

Table 4.--Early estimates of private school pupil/teacher ratio, by religious orientation and school level for grades K through 12: Fall 1988 through fall 1991

Characteristic	Fall 1988	Fall 1989	Fall 1990*	Fall 1991
Total	14.1	14.5	14.9	14.7
Religious orientation				
Catholic	18.0	18.1	19.0	18.6
Other religious	12.3	13.5	13.6	13.4
Nonsectarian	8.8	9.3	9.5	9.4
School level				
Elementary	16.5	17.4	17.4	17.4
Secondary	13.7	12.9	14.1	14.3
Combined	10.7	11.6	12.0	11.3

. Revised

SOURCE: U.S. Department of Education, National Center for Education Statistics, Private School Early Estimates System, and Private School Survey.

Table 5.--Early estimates of number of private high school graduates, by religious orientation and school level: School years 1987-88 through 1991-92

Characteristic	1987-1988	1988-1989	1989- *1990	1990-1991	Projected 1991-1992
Total	299,946	323,968	266,498	247,143	234,455
Religious orientation					
Catholic	186,138	181,976	162,430	148,315	145,297
Other religious	65,438	87,855	57,199	56,234	51,429
Nonsectarian	48,371	54,137	46,869	42,594	37,729
School level					
Secondary	219,298	213,283	200,124	178,018	173,001
Combined	80,648	110,685	66,374	69,125	61,454

. Revised

SOURCE: U.S. Department of Education, National Center for Education Statistics, Private School Early Estimates System, and Private School Survey.

Table 6.--Membership in public elementary and secondary schools, by state for grades prekindergarten through 12: Fall 1987 to fall 1991

State	Actual fall 1987	Actual fall 1988	Preliminary fall 1989	Preliminary fall 1990	Estimated fall 1991
United States	40,007,207	40,188,690	40,526,372	41,223,804	*41,838,871
Alabama	729,934	724,751	723,743	721,806	**726,115
Alaska	105,678	106,481	109,280	113,874	115,277
Arizona	572,421	574,890	607,615	639,853	*673,801
Arkansas	437,036	436,387	434,960	436,286	*437,616
California	4,489,322	4,618,120	4,771,978	4,950,474	5,140,000
Colorado	560,236	560,081	562,755	574,213	**593,030
Connecticut	465,465	460,637	461,560	469,123	478,300
Delaware	95,659	96,678	97,808	99,658	*101,543
District of Columbia	86,435	84,792	81,301	80,694	*80,092
Florida	1,664,774	1,720,930	1,789,925	1,861,592	**1,932,293
Georgia	1,110,947	1,107,994	1,126,535	1,151,687	**1,177,324
Hawaii	166,160	167,488	169,493	171,708	**174,249
Idaho	212,444	214,615	214,932	220,840	**225,680
Illinois	1,811,446	1,794,916	1,797,355	1,821,407	1,851,000
Indiana	964,129	960,994	954,165	954,581	958,240
Iowa	480,826	478,200	478,486	483,652	**491,363
Kansas	421,112	426,596	430,864	437,034	**445,774
Kentucky	642,696	637,627	630,688	636,401	**634,200
Louisiana	793,093	786,683	783,025	784,757	**695,379
Maine	211,817	212,902	213,775	215,149	**216,887
Maryland	683,797	688,947	698,806	715,176	**736,238
Massachusetts	825,320	823,428	825,588	834,314	841,785
Michigan	1,589,287	1,582,785	1,576,785	1,581,925	*1,587,082
Minnesota	721,481	726,950	739,553	756,374	**775,567
Mississippi	505,550	503,326	502,020	502,417	**501,525
Missouri	802,060	806,639	807,934	812,234	822,593
Montana	152,207	152,191	151,265	152,974	153,075
Nebraska	268,100	269,434	270,920	274,081	**277,652
Nevada	168,353	176,474	186,834	201,316	**211,810
New Hampshire	166,045	169,413	171,696	172,785	*173,881
New Jersey	1,092,982	1,080,871	1,076,005	1,089,646	**1,109,604
New Mexico	287,229	292,425	296,057	301,881	297,006
New York	2,594,070	2,573,715	2,565,841	2,598,337	2,645,000
North Carolina	1,085,976	1,083,156	1,080,744	1,086,871	**1,092,447
North Dakota	119,004	118,809	117,816	117,825	**117,719
Ohio	1,793,431	1,778,544	1,764,410	1,771,516	**1,758,071
Oklahoma	584,212	580,426	578,580	579,087	579,200
Oregon	455,895	461,752	472,394	484,652	**498,608
Pennsylvania	1,668,542	1,659,714	1,655,279	1,667,834	1,667,087
Rhode Island	134,061	133,585	135,729	138,813	**140,915
South Carolina	614,921	615,774	616,177	622,112	**627,471
South Dakota	126,817	126,910	127,329	129,164	**131,576
Tennessee	823,783	821,580	819,660	824,595	**832,330
Texas	3,236,787	3,283,707	3,328,514	3,382,887	3,435,749
Utah	423,386	431,119	438,554	447,891	**454,218
Vermont	92,755	93,381	94,779	95,762	96,802
Virginia	979,417	982,393	985,346	998,601	1,016 017
Washington	775,755	790,918	810,232	839,709	868,551
West Virginia	344,236	335,912	327,540	322,389	**320,249
Wisconsin	772,363	774,857	782,905	797,621	821,550
Wyoming	98,455	97,793	97,172	98,226	**99,330
Outlying Areas					
American Samoa	11,248	11,764	12,258	12,463	**13,360
Guam	25,942	26,041	26,493	--	*27,421
Northern Marianas	5,819	6,079	6,101	6,449	*6,817
Puerto Rico	672,837	661,693	651,225	644,734	**642,579
Virgin Islands	24,020	23,492	21,193	21,750	**23,344

--Data missing or not available.
*Imputed by the National Center for Education Statistics (NCES).
**Actual fall 1991 count.
NOTE: All fall 1991 numbers are state estimates unless otherwise indicated by single or double asterisks. Estimates are reported as of December 1991.
SOURCE: U.S. Department of Education, NCES, Common Core of Data.

Table 7.--Number of teachers in public elementary and secondary schools, by state for grades prekindergarten through 12: School years 1987-88 to 1991-92

State	Actual 1987-88	Actual 1988-89	Preliminary 1989-90	Preliminary 1990-91	Estimated 1991-92
United States	*2,278,813	2,323,213	2,356,914	*2,401,474	*2,431,008
Alabama	37,716	38,845	39,928	36,266	**39,760
Alaska	6,113	6,272	6,492	6,710	7,116
Arizona	30,707	31,617	32,134	32,987	*34,648
Arkansas	25,572	27,730	25,585	25,984	*25,997
California	195,864	203,342	212,687	217,228	222,000
Colorado	31,168	31,398	31,954	32,342	**32,826
Connecticut	35,050	35,502	34,618	34,549	34,500
Delaware	5,951	5,898	5,982	5,961	*6,058
District of Columbia	6,232	5,936	6,055	6,075	*6,014
Florida	95,857	100,370	104,127	108,088	**109,806
Georgia	62,280	59,916	61,487	63,058	66,893
Hawaii	7,684	8,737	8,866	9,083	**9,189
Idaho	10,258	10,425	10,715	11,254	11,514
Illinois	105,217	105,097	106,183	108,775	109,916
Indiana	53,749	54,029	54,370	54,509	55,635
Iowa	30,873	30,327	30,423	31,045	**31,399
Kansas	27,317	28,122	28,727	29,140	**30,808
Kentucky	35,239	35,788	35,731	36,777	37,160
Louisiana	42,920	43,203	44,608	--	**45,401
Maine	14,204	14,593	15,206	15,513	15,269
Maryland	40,093	40,899	41,646	42,562	**43,314
Massachusetts	59,517	60,068	59,040	57,761	58,134
Michigan	80,081	79,847	80,150	80,008	*80,064
Minnesota	42,132	42,750	43,101	43,753	44,200
Mississippi	--	27,283	27,591	28,062	27,824
Missouri	49,632	50,693	51,362	52,304	53,304
Montana	9,659	9,626	9,627	9,613	9,599
Nebraska	17,713	18,003	18,464	18,764	**18,358
Nevada	8,348	8,699	9,175	10,373	11,305
New Hampshire	10,363	10,442	10,572	10,637	*10,677
New Jersey	78,335	79,698	79,597	79,886	80,412
New Mexico	15,175	15,770	16,150	16,703	15,458
New York	170,236	172,807	174,610	176,390	188,400
North Carolina	59,771	61,933	63,160	64,283	64,435
North Dakota	7,632	7,731	7,809	7,591	**6,555
Ohio	99,641	101,021	101,629	102,880	**103,884
Oklahoma	34,515	35,116	35,631	37,221	37,000
Oregon	24,911	25,147	25,630	26,163	**23,812
Pennsylvania	103,307	104,379	105,415	100,275	100,750
Rhode Island	8,934	9,216	9,369	9,522	9,500
South Carolina	35,701	35,877	36,337	36,963	37,280
South Dakota	8,172	8,260	8,191	8,511	**8,369
Tennessee	42,082	42,657	42,824	43,051	**42,923
Texas	187,159	196,616	199,397	219,298	210,154
Utah	17,124	17,602	17,611	17,884	17,941
Vermont	6,938	6,852	6,852	7,257	7,170
Virginia	59,928	60,883	62,138	63,638	63,900
Washington	38,344	38,780	40,279	41,764	44,812
West Virginia	22,702	22,177	21,653	21,476	**21,039
Wisconsin	47,721	48,541	49,329	49,302	52,512
Wyoming	6,798	6,693	6,697	6,784	**6,014
Outlying Areas					
American Samoa	656	674	659	662	736
Guam	1,407	1,403	1,622	--	*1,764
Northern Marianas	305	334	358	416	*439
Puerto Rico	33,069	33,357	33,427	34,260	**34,867
Virgin Islands	1,590	1,597	1,595	1,575	**1,579

--Data missing or not available. National total includes imputation for missing data.
*Imputed by the National Center for Education Statistics (NCES).
**Actual fall 1991 count.
NOTE: All 1991-92 numbers are state estimates unless otherwise indicated by single or double asterisks. Estimates are reported as of December 1991.
SOURCE: U.S. Department of Education, NCES, Common Core of Data.

Table 8.--Number of public high school graduates, by state: School years 1987-88 to 1991-92

State	Actual 1987-88	Preliminary 1988-89	Preliminary 1989-90	Estimated 1990-91	Estimated 1991-92
United States	2,500,020	2,458,800	*2,318,888	*2,263,482	*2,250,894
Alabama	43,799	43,437	40,485	**40,581	40,600
Alaska	5,907	5,631	5,386	**5,463	5,764
Arizona	29,777	31,919	32,103	**30,878	30,888
Arkansas	27,776	27,920	26,475	*25,852	*25,408
California	249,617	244,629	236,291	239,000	243,000
Colorado	35,977	35,520	32,967	**31,293	30,890
Connecticut	32,383	30,862	27,842	27,390	27,100
Delaware	5,963	6,104	5,550	*5,505	*5,496
District of Columbia	3,882	3,565	3,626	*3,504	*3,407
Florida	89,206	90,759	88,934	**87,541	88,362
Georgia	61,765	61,937	56,605	**60,088	60,503
Hawaii	10,575	10,404	10,325	**9,519	10,125
Idaho	12,425	12,520	11,971	**12,258	13,000
Illinois	119,090	116,660	108,119	**103,328	102,672
Indiana	64,037	63,571	59,868	**58,416	54,663
Iowa	35,218	34,294	31,796	**28,777	29,433
Kansas	27,036	26,848	25,367	**24,360	23,392
Kentucky	39,484	38,883	38,005	**36,200	36,500
Louisiana	39,058	37,198	36,053	**33,489	33,939
Maine	13,808	13,857	13,839	**13,151	13,239
Maryland	47,175	45,791	41,566	**40,326	40,305
Massachusetts	59,515	57,328	--	50,606	47,348
Michigan	106,151	101,784	93,737	*91,550	*89,997
Minnesota	54,645	53,122	49,087	46,538	46,483
Mississippi	27,896	24,241	25,182	**23,433	22,751
Missouri	51,316	51,968	48,457	**46,928	45,600
Montana	10,311	10,490	9,370	9,100	9,094
Nebraska	18,300	18,690	17,664	**16,362	16,632
Nevada	8,404	9,464	9,477	**9,370	9,442
New Hampshire	11,685	11,340	10,766	*10,547	*10,400
New Jersey	80,863	76,263	69,824	**67,003	63,797
New Mexico	15,868	15,481	14,884	**15,157	14,995
New York	165,379	154,580	143,318	137,300	135,700
North Carolina	67,836	69,970	64,782	**62,533	60,698
North Dakota	8,432	8,077	7,690	**7,573	7,486
Ohio	124,503	125,036	114,513	**107,484	105,370
Oklahoma	36,145	36,773	35,606	33,665	34,000
Oregon	28,058	26,903	25,473	**24,597	24,845
Pennsylvania	124,376	118,921	110,527	**103,200	99,950
Rhode Island	8,684	8,554	7,825	**7,590	7,696
South Carolina	36,113	37,020	32,483	33,000	32,200
South Dakota	8,415	8,181	7,650	7,127	7,385
Tennessee	47,904	48,553	46,094	**42,669	41,359
Texas	171,436	176,951	172,480	164,060	188,500
Utah	22,226	22,934	22,373	**23,488	24,661
Vermont	6,177	5,963	6,127	5,207	4,915
Virginia	65,688	65,004	60,605	58,933	57,951
Washington	51,754	48,941	45,941	43,464	44,605
West Virginia	22,406	22,886	21,854	**21,064	20,639
Wisconsin	58,428	54,994	52,038	51,288	51,801
Wyoming	6,148	6,079	5,823	**5,728	5,907
Outlying Areas					
American Samoa	633	569	703	**597	*626
Guam	898	936	--	*943	*940
Northern Marianas	285	200	227	*234	*242
Puerto Rico	31,832	31,617	29,049	**28,329	32,478
Virgin Islands	1,026	1,025	1,260	*986	950

--Data missing or not available. National total includes imputation for missing data.
*Imputed by the National Center for Education Statistics (NCES).
**Actual count.
NOTE: All 1990-91 and 1991-92 numbers are state estimates unless otherwise indicated by single or double asterisks. Estimates are reported as of December 1991.
SOURCE: U.S. Department of Education, NCES, Common Core of Data.

Table 9.--Revenues for public elementary and secondary education, by state for grades prekindergarten through 12: Fiscal years 1988 to 1992

(In thousands of dollars)

State	Actual FY 88	Preliminary FY 89	Preliminary FY 90	Estimated FY 91	Estimated FY 92
United States	$169,555,933	$191,267,624	$207,579,159	*$220,077,847	*$231,343,420
Alabama	2,171,704	2,552,053	2,557,836	2,610,994	2,650,000
Alaska	777,086	864,292	909,380	916,113	934,275
Arizona	2,361,006	2,589,909	2,742,625	*3,011,585	*3,282,743
Arkansas	1,211,164	1,473,751	1,594,428	*1,667,646	*1,731,473
California	17,884,769	22,208,938	24,320,281	25,927,000	26,834,000
Colorado	2,443,132	2,477,978	2,767,107	*2,944,127	*3,147,387
Connecticut	2,890,957	3,116,060	3,554,800	3,750,000	3,950,000
Delaware	464,318	500,642	542,448	*576,333	*607,856
District of Columbia	484,717	521,094	557,089	*576,563	*592,355
Florida	7,466,975	8,396,809	9,589,961	**10,613,838	11,091,461
Georgia	3,715,388	4,693,011	5,194,517	5,591,154	6,057,703
Hawaii	623,136	682,202	755,987	831,585	941,744
Idaho	580,432	651,165	710,841	688,603	764,914
Illinois	6,452,386	8,023,607	8,964,537	9,326,270	9,979,109
Indiana	3,825,865	4,372,707	4,349,969	4,400,000	4,500,000
Iowa	1,958,184	2,072,991	2,149,710	2,235,698	2,325,126
Kansas	1,773,743	1,920,927	2,085,315	**2,248,213	2,378,540
Kentucky	1,819,222	2,071,522	2,247,379	2,588,980	2,733,963
Louisiana	2,541,690	2,787,869	3,058,293	*3,196,065	*2,931,514
Maine	886,378	1,027,134	1,154,667	1,247,041	1,346,804
Maryland	3,464,182	3,804,336	4,310,032	4,549,085	4,664,761
Massachusetts	4,485,247	4,847,275	5,117,504	5,331,644	5,399,264
Michigan	7,650,004	7,733,780	8,394,959	8,755,426	9,411,294
Minnesota	3,298,933	3,665,226	3,994,493	4,300,400	4,600,000
Mississippi	1,135,053	1,440,070	1,573,464	**1,571,456	1,650,028
Missouri	3,069,758	3,442,018	3,699,939	3,826,200	3,918,900
Montana	636,045	662,104	707,594	735,000	764,000
Nebraska	1,034,017	1,214,451	1,359,712	**1,277,694	1,363,939
Nevada	660,290	757,832	860,464	970,636	1,021,679
New Hampshire	748,214	825,442	900,843	*945,305	*984,709
New Jersey	7,250,514	7,992,886	8,763,058	*9,253,451	*9,753,857
New Mexico	1,028,708	1,142,068	1,225,429	*1,302,943	*1,326,921
New York	17,094,990	18,764,256	19,744,546	21,270,420	21,775,900
North Carolina	3,789,548	4,279,584	4,683,693	4,976,689	5,288,230
North Dakota	433,358	469,624	487,049	437,683	459,567
Ohio	6,611,187	8,222,796	8,617,848	*9,191,200	10,163,997
Oklahoma	1,750,530	2,127,862	2,172,547	2,422,000	2,532,000
Oregon	1,942,303	2,315,476	2,537,972	2,513,000	2,639,000
Pennsylvania	8,781,585	9,154,167	10,336,060	10,852,863	11,938,149
Rhode Island	682,486	753,042	844,009	853,664	904,884
South Carolina	2,175,842	2,453,008	2,670,283	2,744,462	2,765,551
South Dakota	434,761	468,658	503,949	534,987	547,412
Tennessee	2,233,442	2,731,861	2,907,714	**2,930,766	2,910,707
Texas	12,612,869	13,110,312	13,948,117	15,269,681	16,654,512
Utah	1,183,399	1,203,017	1,326,479	1,395,104	1,518,257
Vermont	493,874	507,918	562,543	*592,671	*620,147
Virginia	3,934,323	4,636,663	5,101,281	5,569,301	5,441,207
Washington	3,218,732	3,775,985	4,192,291	**4,098,977	4,358,475
West Virginia	1,268,654	1,290,156	1,413,165	1,620,343	1,701,361
Wisconsin	3,552,430	3,904,897	4,233,900	**4,597,174	4,938,737
Wyoming	568,402	566,196	581,050	**566,721	595,907
Outlying Areas					
American Samoa	21,047	24,385	26,936	26,206	26,500
Guam	88,106	104,724	--	*132,050	*139,060
Northern Marianas	17,876	19,724	--	*23,987	*26,245
Puerto Rico	942,179	1,096,135	1,159,520	1,262,949	1,341,060
Virgin Islands	106,533	132,329	174,458	151,678	147,427

--Data missing or not available. National total includes imputation for missing data.
*Imputed by the National Center for Education Statistics (NCES).
**Actual count.
NOTE: All FY 91 and FY 92 numbers are state estimates unless otherwise indicated by single or double asterisks. Estimates are reported as of December 1991.
SOURCE: U.S. Department of Education, NCES, Common Core of Data.

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Table 10.--Current expenditures for public elementary and secondary education, by state for grades prekindergarten through 12: Fiscal years 1988 to 1992

(In thousands of dollars)

State	Actual FY 88	Preliminary FY 89	Preliminary FY 90	Estimated FY 91	Estimated FY 92
United States	$157,097,951	$172,968,800	$187,379,810	*$201,398,875	*$213,237,595
Alabama	1,873,390	2,188,020	2,275,233	2,455,254	2,456,000
Alaska	756,577	739,020	822,472	912,191	931,010
Arizona	2,002,395	2,143,148	2,260,980	*2,554,745	*2,976,126
Arkansas	1,211,156	1,319,370	1,404,545	*1,511,670	*1,677,378
California	17,402,063	19,417,178	21,485,782	22,905,000	23,707,000
Colorado	2,172,563	2,266,667	2,451,885	*2,684,435	*3,066,963
Connecticut	2,748,567	2,984,542	3,342,033	3,540,000	3,740,000
Delaware	440,631	479,327	511,718	*559,459	*630,606
District of Columbia	489,357	584,035	618,383	*658,570	*723,102
Florida	6,288,977	7,245,515	8,228,531	**8,883,735	9,283,503
Georgia	3,549,038	4,006,069	4,414,016	4,789,934	5,187,205
Hawaii	608,264	643,319	699,977	755,975	831,573
Idaho	532,274	571,159	627,794	683,423	762,931
Illinois	6,923,298	7,655,153	8,093,792	8,417,543	9,006,771
Indiana	3,330,525	3,779,468	4,024,098	4,180,000	4,300,000
Iowa	1,859,173	1,925,623	2,004,742	2,084,932	2,168,329
Kansas	1,568,041	1,712,260	1,848,302	**1,959,200	2,037,568
Kentucky	1,741,799	1,918,741	2,094,231	2,420,931	2,561,345
Louisiana	2,289,241	2,468,307	2,802,793	*3,014,045	*2,954,528
Maine	839,860	921,931	1,048,195	1,128,619	1,218,909
Maryland	3,128,165	3,505,018	3,845,123	4,110,190	4,248,763
Massachusetts	4,098,062	4,522,119	4,760,390	4,897,866	5,015,486
Michigan	6,913,261	7,458,330	8,025,621	8,332,478	8,972,228
Minnesota	2,981,209	3,282,296	3,489,876	3,800,000	4,000,000
Mississippi	1,221,560	1,372,290	1,473,807	**1,507,072	1,582,426
Missouri	2,747,234	3,096,666	3,288,738	3,148,650	3,224,910
Montana	590,226	592,454	641,345	718,000	747,000
Nebraska	995,235	1,105,009	1,233,431	**1,151,620	1,229,354
Nevada	555,272	628,657	712,898	855,675	946,871
New Hampshire	677,507	733,240	821,671	*887,243	*987,735
New Jersey	6,621,860	7,309,147	7,971,100	*8,6661,408	*9,757,153
New Mexico	916,305	975,552	1,021,082	*1,117,172	*1,215,910
New York	16,073,392	17,127,584	18,090,978	19,515,000	20,200,000
North Carolina	3,424,194	3,892,971	4,288,474	4,683,014	5,113,851
North Dakota	385,427	431,814	459,391	477,076	491,388
Ohio	6,446,903	7,425,194	8,070,267	**9,338,200	10,500,000
Oklahoma	1,692,283	1,833,743	1,907,379	2,062,000	2,172,000
Oregon	1,944,657	2,123,241	2,306,552	2,449,000	2,571,000
Pennsylvania	7,679,986	8,597,355	9,241,300	9,888,191	10,580,365
Rhode Island	663,800	747,852	786,969	854,146	905,395
South Carolina	1,932,502	2,118,732	2,332,497	2,440,084	2,476,685
South Dakota	389,436	427,522	447,177	502,189	533,854
Tennessee	2,352,183	2,668,341	2,790,808	**2,827,839	2,868,269
Texas	10,791,854	11,761,447	12,763,954	13,665,821	14,456,735
Utah	974,666	1,040,104	1,116,251	1,221,456	1,284,111
Vermont	456,992	485,226	546,901	*592,911	*663,029
Virginia	3,793,475	4,151,050	4,561,874	4,985,934	4,871,257
Washington	3,005,980	3,204,265	3,534,584	**4,163,383	4,403,126
West Virginia	1,231,966	1,202,486	1,316,173	1,507,075	1,582,429
Wisconsin	3,318,247	3,688,311	3,964,612	**4,306,098	4,688,678
Wyoming	466,921	491,930	509,084	**566,720	590,649
Outlying Areas					
American Samoa	20,186	22,314	21,837	26,009	*30,843
Guam	76,359	94,368	--	*127,309	*143,280
Northern Marianas	19,694	14,375	--	*11,901	*13,916
Puerto Rico	935,392	1,030,387	1,090,383	1,195,043	*1,296,562
Virgin Islands	89,217	111,750	128,066	131,762	147,427

--Data missing or not available.
*Imputed by the National Center for Education Statistics (NCES).
**Actual count.
NOTE: All FY 91 and FY 92 numbers are state estimates unless otherwise indicated by single or double asterisks. Estimates are reported as of December 1991.
SOURCE: U.S. Department of Education, NCES, Common Core of Data.

Table 11.--Student membership and number of teachers, and estimates of revenues, expenditures, and pupil/teacher ratio for public elementary and secondary schools, by state for grades prekindergarten through 12: School year 1990-91/Fiscal year 1991

State	Preliminary		Estimated				
	Membership	Number of teachers	Revenues (in thousands)	Current expenditures (in thousands)	Pupil/ teacher ratio	Per pupil revenue	Per pupil expenditure
United States	41,223,804	*2,401,474	*$220,077,847	*$201,398,875	*17.2	*$5,339	*$4,885
Alabama	721,806	36,266	2,610,994	2,455,254	19.9	3,617	3,402
Alaska	113,874	6,710	916,113	912,191	17.0	8,045	8,011
Arizona	639,853	32,987	*3,011,585	*2,554,745	19.4	*4,707	*3,993
Arkansas	436,286	25,984	*1,667,646	*1,511,670	16.8	*3,822	*3,465
California	4,950,474	217,228	25,927,000	22,905,000	22.8	5,237	4,627
Colorado	574,213	32,342	*2,944,127	*2,684,435	17.8	*5,127	*4,675
Connecticut	469,123	34,549	3,750,000	3,540,000	13.6	7,994	7,546
Delaware	99,658	5,961	*576,333	*559,459	16.7	*5,783	*5,614
District of Columbia	80,694	6,075	*576,563	*658,570	13.3	*7,145	*8,161
Florida	1,861,592	108,088	**10,613,838	**8,883,735	17.2	5,701	4,772
Georgia	1,151,687	63,058	5,591,154	4,789,934	18.3	4,855	4,159
Hawaii	171,708	9,083	831,585	755,975	18.9	4,843	4,403
Idaho	220,840	11,254	688,603	683,423	19.6	3,118	3,095
Illinois	1,821,407	108,775	9,326,270	8,417,543	16.7	5,120	4,621
Indiana	954,581	54,509	4,400,000	4,180,000	17.5	4,609	4,379
Iowa	483,652	31,045	2,235,698	2,084,932	15.6	4,623	4,311
Kansas	437,034	29,140	**2,248,213	**1,959,200	15.0	5,144	4,483
Kentucky	636,401	36,777	2,588,980	2,420,931	17.3	4,068	3,804
Louisiana	784,757	--	*3,196,065	*3,014,045	*17.3	*4,073	*3,841
Maine	215,149	15,513	1,247,041	1,128,619	13.9	5,796	5,246
Maryland	715,176	42,562	4,549,085	4,110,190	16.8	6,361	5,747
Massachusetts	834,314	57,761	5,331,644	4,897,866	14.4	6,390	5,871
Michigan	1,581,925	80,008	8,755,426	8,332,478	19.8	5,535	5,267
Minnesota	756,374	43,753	4,300,400	3,800,000	17.3	5,686	5,024
Mississippi	502,417	28,062	**1,571,456	**1,507,072	17.9	3,128	3,000
Missouri	812,234	52,304	3,826,200	3,148,650	15.5	4,554	3,957
Montana	152,974	9,613	735,000	718,000	15.9	4,805	4,694
Nebraska	274,081	18,764	**1,277,694	**1,151,620	14.6	4,662	4,202
Nevada	201,316	10,373	970,636	855,675	19.4	4,821	4,250
New Hampshire	172,785	10,637	*945,305	*887,243	16.2	*5,471	*5,135
New Jersey	1,089,646	79,886	*9,253,451	*8,6661,408	13.6	*8,492	*7,949
New Mexico	301,881	16,703	*1,302,943	*1,117,172	18.1	*4,316	*3,701
New York	2,598,337	176,390	21,270,420	19,515,000	14.7	8,186	7,511
North Carolina	1,086,871	64,283	4,976,689	4,683,014	16.9	4,579	4,309
North Dakota	117,825	7,591	437,683	477,076	15.5	3,715	4,049
Ohio	1,771,516	102,880	*9,191,200	**9,338,200	17.2	5,188	5,271
Oklahoma	579,087	37,221	2,422,000	2,062,000	15.6	4,182	3,561
Oregon	484,652	26,163	2,513,000	2,449,000	18.5	5,185	5,053
Pennsylvania	1,667,834	100,275	10,852,863	9,888,191	16.6	6,507	5,929
Rhode Island	138,813	9,522	853,664	854,146	14.6	6,150	6,153
South Carolina	622,112	36,963	2,744,462	2,440,084	16.8	4,412	3,922
South Dakota	129,164	8,511	534,987	502,189	15.2	4,142	3,888
Tennessee	824,595	43,051	**2,930,766	**2,827,839	19.2	3,554	3,429
Texas	3,382,887	219,298	15,269,681	13,665,821	15.4	4,514	4,040
Utah	447,891	17,884	1,395,104	1,221,456	25.0	3,115	2,727
Vermont	95,762	7,257	*592,671	*592,911	13.2	*6,189	*6,192
Virginia	998,601	63,638	5,569,301	4,985,934	15.7	5,577	4,993
Washington	839,709	41,764	**4,098,977	**4,163,383	20.1	4,881	4,958
West Virginia	322,389	21,476	1,620,343	1,507,075	15.0	5,026	4,675
Wisconsin	797,621	49,302	**4,597,174	**4,306,098	16.2	5,764	5,399
Wyoming	98,226	6,784	**566,721	**566,720	14.5	5,770	5,770
Outlying Areas							
American Samoa	12,463	662	26,206	26,009	18.8	2,103	2,087
Guam	--	--	*132,050	*127,309	*16.3	*4,899	*4,723
Northern Marianas	6,449	416	*23,987	*11,901	15.5	*3,719	*1,845
Puerto Rico	644,734	34,260	1,262,949	1,195,043	18.8	1,959	1,854
Virgin Islands	21,750	1,575	151,678	131,762	13.8	6,974	6,058

--Data missing or not available. National total includes imputation for missing data.
*Imputed by the National Center for Education Statistics (NCES).
**Actual count.
NOTE: All numbers for revenues and expenditures are state estimates unless otherwise indicated by single or double asterisks. All numbers for membership and teachers are actual counts unless otherwise noted. Estimates for revenues and expenditures are reported as of December 1991.
SOURCE: U.S. Department of Education, NCES, Common Core of Data.

Table 12.--Estimated membership, number of teachers, revenues, expenditures, and pupil/teacher ratio, for public elementary and secondary schools, by state for grades prekindergarten through 12: School year 1991-92/ Fiscal year 1992

State	Membership	Number of teachers	Revenues (in thousands)	Current expenditures (in thousands)	Pupil/ teacher ratio	Per pupil revenue	Per pupil expenditure
United States	*41,838,871	*2,431,008	*$231,343,420	*$213,237,595	*17.2	*$5,529	*$5,097
Alabama	**726,115	**39,760	2,650,000	2,456,000	18.3	3,650	3,382
Alaska	115,277	7,116	934,275	931,010	16.2	8,105	8,076
Arizona	*673,801	*34,648	*3,282,743	*2,976,126	*19.4	*4,872	*4,417
Arkansas	*437,616	*25,997	*1,731,473	*1,677,378	*16.8	*3,957	*3,833
California	5,140,000	222,000	26,834,000	23,707,000	23.2	5,221	4,612
Colorado	**593,030	**32,826	*3,147,387	*3,066,963	*18.1	*5,307	*5,172
Connecticut	478,300	34,500	3,950,000	3,740,000	13.9	8,258	7,819
Delaware	*101,543	*6,058	*607,856	*630,606	*16.8	*5,986	*6,210
District of Columbia	*80,092	*6,014	*592,355	*723,102	*13.3	*7,396	*9,028
Florida	**1,932,293	**109,806	11,091,461	9,283,503	17.6	5,740	4,804
Georgia	**1,177,324	66,893	6,057,703	5,187,205	17.6	5,145	4,406
Hawaii	**174,249	**9,189	941,744	831,573	19.0	5,405	4,772
Idaho	**225,680	11,514	764,914	762,931	19.6	3,389	3,381
Illinois	1,851,000	109,916	9,979,109	9,006,771	16.8	5,391	4,866
Indiana	958,240	55,635	4,500,000	4,300,000	17.2	4,696	4,487
Iowa	**491,363	**31,399	2,325,126	2,168,329	15.6	4,732	4,413
Kansas	**445,774	**30,808	2,378,540	2,037,568	14.5	5,336	4,571
Kentucky	**634,200	37,160	2,733,963	2,561,345	17.1	4,311	4,039
Louisiana	**695,379	**45,401	*2,931,514	*2,954,528	15.3	*4,216	*4,249
Maine	**216,887	15,269	1,346,804	1,218,909	14.2	6,210	5,620
Maryland	**736,238	**43,314	4,664,761	4,248,763	17.0	6,336	5,771
Massachusetts	841,785	58,134	5,399,264	5,015,486	14.5	6,414	5,958
Michigan	*1,587,082	*80,064	9,411,294	8,972,228	*19.8	5,930	5,653
Minnesota	**775,567	44,200	4,600,000	4,000,000	17.5	5,931	5,158
Mississippi	**501,525	27,824	1,650,028	1,582,426	18.0	3,290	3,155
Missouri	822,593	53,304	3,918,900	3,224,910	15.4	4,702	4,086
Montana	153,075	9,599	764,000	747,000	15.9	4,991	4,880
Nebraska	**277,652	**18,358	1,363,939	1,229,354	15.1	4,912	4,428
Nevada	**211,810	11,305	1,021,679	946,871	18.7	4,824	4,470
New Hampshire	*173,881	*10,677	*984,709	*987,735	*16.3	*5,663	*5,681
New Jersey	**1,109,604	80,412	*9,753,857	*9,757,153	13.8	*8,790	*8,793
New Mexico	297,006	15,458	*1,326,921	*1,215,910	19.2	*4,468	*4,094
New York	2,645,000	188,400	21,775,900	20,200,000	14.0	8,233	7,637
North Carolina	**1,092,447	64,435	5,288,230	5,113,851	17.0	4,841	4,681
North Dakota	**117,719	**6,555	459,567	491,388	18.0	3,904	4,174
Ohio	**1,758,071	**103,884	10,163,997	10,500,000	16.9	5,781	5,972
Oklahoma	579,200	37,000	2,532,000	2,172,000	15.7	4,372	3,750
Oregon	**498,608	**23,812	2,639,000	2,571,000	20.9	5,293	5,156
Pennsylvania	1,667,087	100,750	11,938,149	10,580,365	16.5	7,161	6,347
Rhode Island	**140,915	9,500	904,884	905,395	14.8	6,421	6,425
South Carolina	**627,471	37,280	2,765,551	2,476,685	16.8	4,407	3,947
South Dakota	**131,576	**8,369	547,412	533,854	15.7	4,160	4,057
Tennessee	**832,330	**42,923	2,910,707	2,868,269	19.4	3,497	3,446
Texas	3,435,749	210,154	16,654,512	14,456,735	16.3	4,847	4,208
Utah	**454,218	17,941	1,518,257	1,284,111	25.3	3,343	2,827
Vermont	96,802	7,170	*620,147	*663,029	13.5	*6,406	*6,849
Virginia	1,016,017	63,900	5,441,207	4,871,257	15.9	5,355	4,794
Washington	868,551	44,812	4,358,475	4,403,126	19.4	5,018	5,070
West Virginia	**320,249	**21,039	1,701,361	1,582,429	15.2	5,313	4,941
Wisconsin	821,550	52,512	4,938,737	4,688,678	15.6	6,011	5,707
Wyoming	**99,330	**6,014	595,907	590,649	16.5	5,999	5,946
Outlying Areas							
American Samoa	**13,360	736	26,500	*30,843	18.2	1,984	*2,309
Guam	*27,241	*1,764	*139,060	*143,280	*14.7	*5,071	*5,225
Northern Marianas	*6,817	*439	*26,245	*13,916	*15.5	*3,850	*2,041
Puerto Rico	**642,579	**34,867	1,341,060	*1,296,562	18.4	2,087	*2,018
Virgin Islands	**23,344	**1,579	147,427	147,427	14.8	6,315	6,315

*Imputed by the National Center for Education Statistics (NCES).
**Actual count.
NOTE: All numbers are state estimates unless otherwise indicated by single or double asterisks.
SOURCE: U.S. Department of Education, NCES, Common Core of Data.

Table 13.--Selected standard errors for private school early estimates for grades K through 12: School year 1991-92

Characteristic	Total	Religious Orientation			School Level		
		Catholic	Other religious	Non-sectarian	Elementary	Secondary	Combined
Students							
Fall 1988	96,779.9	63,087.0	65,974.6	36,800.1	82,816.9	29,378.6	57,862.8
Fall 1989	117,830.9	58,569.5	88,321.4	51,507.8	75,128.0	35,790.6	114,972.5
Fall 1990*	101,884.4	47,358.9	54,614.8	40,056.3	77,419.1	68,699.4	54,780.8
Fall 1991	80,031.0	44,561.6	58,098.6	46,753.3	86,505.4	74,033.3	53,742.5
Teachers							
Fall 1988	7,624.7	4,166.7	5,452.3	4,359.3	5,707.4	1,545.0	5,116.1
Fall 1989	8,636.1	3,656.6	5,035.6	5,987.8	5,183.5	2,858.5	7,865.2
Fall 1990*	7,689.4	2,834.1	4,316.4	4,286.4	5,220.0	4,222.9	4,345.7
Fall 1991	8,320.1	2,920.5	6,217.0	5,602.6	5,517.4	4,604.8	7,114.2
Pupil/teacher ratio							
Fall 1988	0.2	0.4	0.3	0.2	0.3	0.4	0.3
Fall 1989	0.1	0.1	0.3	0.1	0.1	0.1	0.1
Fall 1990*	0.1	0.2	0.3	0.3	0.3	0.4	0.3
Fall 1991	0.3	0.3	0.6	0.5	0.3	0.3	0.6
Graduates							
1987-88	9,605.4	8,993.4	3,863.2	4,419.8	--	9,237.6	4,809.1
1988-89	13,305.6	9,956.0	8,449.2	6,839.1	--	9,069.0	12,302.2
1989-90*	13,863.9	12,592.6	4,275.5	4,136.7	--	13,340.0	5,650.3
1990-91	13,062.3	12,662.7	3,621.0	3,638.2	--	12,664.1	4,422.7
1991-92	13,095.8	11,835.7	4,313.5	3,662.7	--	11,846.3	5,171.6

--Not applicable.

* Revised

SOURCE: U.S. Department of Education, National Center for Education Statistics, Private School Early Estimates System, and Private School Survey.

TECHNICAL NOTES

Public School Early Estimates Methodology

In mid-November 1991, survey forms were sent out to each state education agency. States were asked to return by mail or fax the completed form. Those which had not responded by December were contacted by telephone. All data were checked for reasonableness against prior years' reports, and followup calls were made to resolve any questions.

Missing values for student membership were imputed by multiplying a state's membership data from the 1990-91 school year by one plus the rate of growth experienced by that state in student membership from 1989-90 to 1990-91.

Missing values for other data elements were imputed by state, using ratios of the missing quantity to the student membership value, and then adjusting this number by the national average percent change from the previous year for this element. For example, the procedure for imputing the number of teachers in the 1991-92 school year involved: (1) calculating the teacher-to-student ratio in the given state in 1990-91; (2) calculating the total growth rate in teacher-to-student ratios for reporting states from 1990-91 to 1991-92; and (3) multiplying the state student membership for the 1991-92 school year by the ratio calculated in step 1, and then multiplying this product by the growth rate calculated in step 2. Equivalent procedures were used for imputing numbers of high school graduates, revenues, and current expenditures. When a national total includes imputed state values, that national total is reported as an imputed number.

Nonfiscal data for school years 1989-90 and 1990-91 and fiscal data for fiscal year 1989 and fiscal year 1990 are reported as preliminary. These data have not yet been adjudicated by NCES and are subject to change.

The "Fiscal Survey" instrument was revised for fiscal year 1989. The difference between the revised form and the version it replaced accounts for some of the differences between figures reported before fiscal year 1989 and figures for fiscal year 1989 and subsequent years.

Accuracy of Estimates

Past years' data provide an indication of the differences between early estimates and final data. The early estimate of public school membership for fall 1990 was 41,026,499, which represented an increase of 1.23 percent from the fall 1989 value. The actual increase, based on the final count of 41,223,804 was 1.72 percent. Last year's estimate indicated that there were 2,390,411 public school teachers for 1990-91, implying an increase of 1.43 percent over the previous year. Actual increase of public school

teachers over that year was 1.89 percent. For number of public school graduates, the estimated decrease from 1988-89 to 1989-90 was 5.14 percent, while the actual decrease was 5.69 percent. Revenues were estimated to increase 6.41 percent from 1988-89 to 1989-90, while the actual increase was 8.53 percent. The estimated increase in current expenditures, from 1988-89 to 1989-90, was 7.12 percent, as compared with an actual increase of 8.33 percent. The same methodology used for estimating these data last year was used to generate the estimates for this report.

Private School Early Estimates Methodology

Early in September 1991, questionnaires were mailed to a national probability sample of 1,163 private elementary and secondary schools. Telephone collection of the data began in early October and was completed in mid-October. The overall response rate was 96.5 percent: 1,064 of the 1,103 eligible schools. Some 60 of the original 1,163 schools in the sample were determined to be out-of-scope[1]. After adjusting for out-of-scope schools, the weighted estimate of private schools is 24,284.

The sampling frame used for the Private School Early Estimates Survey was the 1989-1990 NCES Private School Survey (PSS). This survey collected information on the number of teachers and students in private schools, by school religious orientation and level as well as actual and projected counts of high school graduates. The PSS, and therefore the early estimates survey, uses two nonoverlapping frames: the list frame of approximately 21,515 eligible schools (the universe list), and an area frame developed by the Census Bureau, consisting of 933 schools identified in 124 sampled geographic areas (Primary Sampling Units or PSUs). The area frame is constructed from a sample survey designed to capture those schools not included in the universe list and is repeated every 2 years. The 933 schools identified in the sampled areas are weighted to a national estimate of the number of private schools not included in the universe list. This weighted number is then added to the universe count to produce an estimate of the total number of private schools in the United States.

For the early estimates, the list frame was stratified by level of school (elementary, secondary, combined, other, and unknown) and religious orientation (Catholic, other religious, and nonsectarian); within strata, schools were further sorted by Census region and by student membership size within region. Each school in the sorted frame was assigned a sampling measure of size equal to the square root of student membership.

The area frame was stratified by level of school (elementary, secondary, and other) and religious orientation (Catholic, other religious, and nonsectarian). Within

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[1]An out-of-scope school is one that does not serve any of grades 1 through 12 or is located in a private home that is used as a family residence.

strata, schools were further sorted by FIPS (Federal Information Processing Standards) state code, by FIPS county code within states, and by student membership within counties. Samples were selected with probabilities proportionate to size from each stratum. The measure of size used for this purpose was the square root of student membership multiplied by the inverse of the probability of selection of the PSU in which the school is located.

The list and area samples for the 1991 early estimates were the same as the 1990 early estimate samples.

The estimation procedure used the estimates obtained from the NCES frame of private schools (1989 Private School Survey) and adjusted those estimates for the change reflected in the 1991 early estimates data collections. The steps of this procedure were: 1) obtain Private School Survey (PSS) frame estimates for the data elements desired, adjusting for both partial and total nonresponse; 2) collect 1991 early estimates data for the data elements; 3) weight the early estimate sample to reflect the sampling rates (probability of selection), adjusting for total nonresponse separately by the sampling strata and by enrollment; 4) for each of the data elements, compute the weighted ratio of the 1991 early estimates data and the 1989 PSS data for those schools that reported for both time periods (the change from 1989 to 1991); and 5) multiply the change calculated in step 4 by the appropriate PSS estimate in step 1. Numbers in the tables and text have been rounded. Ratios have been calculated on the actual estimates rather than the rounded values. The 1990 early estimates were adjusted to account for both total and partial nonresponse.

Sample survey data, such as the private school estimates data, are subject to error due to variations in sampling. The standard error is a measure of the variability due to sampling when estimating a statistic. It indicates how much variance there is in the population of possible estimates of a parameter for a given sample size. Standard errors can be used as a measure of the precision expected from a particular sample. If all possible samples were surveyed under similar conditions, intervals of 1.96 standard errors below to 1.96 standard errors above a particular statistic would include the true population parameter being estimated in about 95 percent of the samples. This is a 95 percent confidence interval. For example, for the ratio of private school pupils to private school teachers in 1991-92, the estimate for all private schools is 14.7 and the standard error is 0.31. The 95 percent confidence interval for this statistic extends from 14.7 - (0.31 times 1.96) to 14.7 + (0.31 times 1.96) or from 14.1 to 15.3. The standard error for the 5,193,213 students in private schools is 91,151. The 95 percent confidence interval for this statistic extends from 5,014,556 to 5,371,870.

Estimates of standard errors were computed using a variance estimation procedure for complex sample survey data known as balanced repeated replication (BRR)--a technique that splits the sample into several different half-samples. Weight adjusted estimates are computed from the half-samples. Finally, the standard error of

the half-sample estimates is used as an approximation for the full-sample standard error[2]. Table 13 presents standard errors for some key statistics for private schools.

Survey estimates are also subject to errors of reporting and errors made in the collection and processing of the data. These errors, called nonsampling errors, can sometimes bias the data. While general sampling theory can be used to estimate the sampling variability of an estimate, nonsampling errors are not easy to measure and usually require either an experiment to be conducted as part of the data collection procedure or use of data external to the study.

Nonsampling errors may include such things as differences in the respondents' interpretation of the meaning of the questions, differences related to the particular time the survey was conducted, or errors in data preparation. The content of the survey was developed in consultation with representatives of private school associations attending NCES meetings for users of private school data. The questionnaire and instructions were reviewed extensively by NCES staff. Manual and machine editing of the questionnaires was conducted to check the data for accuracy and consistency. Data were keyed with 100 percent verification.

Undercoverage in the list and area frames is another possible source of nonsampling error. The area frame was used to complement the list frame through the identification of schools missing from the list frame. The area frame represents approximately 20 percent of the total number of private schools. The estimates in this report do not take into account newly opened private schools. As a result, the estimates of students, teachers and graduates may be biased and lower than the actual numbers. The 1991-92 list and area frame updates to the PSS will be reflected in next year's early estimates, and so new schools will be included in those new estimates. As the Private School Early Estimates System and the Private School Survey (the universe data collection) system develop, both the list and area frames will be updated periodically.

Reliability of Estimates

Comparisons of the NCES private school estimates from 1991-92 with those from 1990-91 show similarities in the estimates for the number of private school students, teachers, and graduates (from the previous school year) in the aggregate, as well as within each school level and religious orientation group. For example, the confidence interval on the 1990-91 estimate of 4,878,396 private school students ranged from 4,678,781 to 5,078,011 and the confidence interval of the 1991-92 estimate of 4,821,110 ranges from 4,664,249 to 4,977,971. Similarly, the confidence interval on the 1990-91 estimate of 326,718 private school teachers ranged from 311,647 to 341,789 and the confidence interval on the 1991-92 estimate of 327,754 ranges from 311,447 to 344,061.

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[2]Wolter, K. M. (1985). Introduction to Variance Estimation. Springer-Verlag, New York, 110-145.

The NCES early estimate for the total number of students in private schools was compared with the most recent Census sample survey estimate of total enrollment (from the October Supplement of the Current Population Survey (CPS), "School Enrollment--Social and Economic Characteristics of Students: October 1990," *Current Population Reports,* Series P-20, U.S. Department of Commerce, forthcoming). This comparison showed that the two estimates are different. In particular, the CPS estimate of the number of private school students in grades kindergarten through 12 in the 1990-91 school year is 4.1 million, compared with the 4.9 million students reported in the NCES 1990-91 early estimates. (The confidence interval on the CPS estimates ranges from 3.9 to 4.3 million, and the confidence interval of the early estimates private school membership count ranges from 4.7 to 5.1 million.)

Comparisons of NCES estimates for Catholic schools with the National Catholic Educational Association (NCEA) universe data for the 1990-91 school year show some similarities and some differences in these two independent data sources ("United States Catholic Elementary and Secondary Schools, 1990-91," National Catholic Educational Association, 1991). The NCEA teacher count of 131,198 is based on statistics submitted by the 174 dioceses in the United States and is based on a head count of full-time teachers, while the estimate reported here (137,450) includes part-time teachers in the computation of full-time equivalents. Because of this definitional difference, the two values are different (the confidence interval of the NCES estimate ranges from 131,895 to 143,004). However, the NCEA estimate of 133,391 high school graduates in 1990-91 is similar to the NCES estimate of 148,315. (The confidence interval for the NCES estimate is 123,634 to 172,996.)

The number of students reported in membership in Catholic schools is different in the two reports, with a membership count of 2,475,439 from NCEA and an NCES early estimates membership count of 2,607,931. The confidence interval on the NCES early estimate of Catholic school student membership ranges from 2,515,108 to 2,700,754.

The definitional difference in the number of teachers and the difference in the reported number of students may affect the pupil-to-teacher ratio. However, the pupil-to-teacher ratio is not different in the two reports. The NCEA 1990-91 school year pupil-to-teacher ratio of 18.9 is similar to the NCES 1990-91 estimate of 19.0 for Catholic schools (the confidence interval on the NCES pupil-to-teacher ratio in Catholic schools ranges from 18.6 to 19.4).

Revision of 1990-91 Private School Early Estimates

The 1990-91 private school early estimates were revised this year because the PSU weights were found to be incorrect, causing the 1989 to 1990 change estimates used last year to compute the early estimates to be incorrect. After the weights were corrected, the PSS and change estimates were recomputed, providing new 1990

estimates. The revised numbers are presented in the text. The table below compares the old and revised estimates.

Comparison between old and revised 1990-91 private school early estimates

Estimate	Old estimate	Revised estimate
Total students (K-12)	4,852,779	4,878,396
Total teachers (K-12)	325,344	326,718
1990 graduates	267,616	266,498
Projected 1991 graduates	232,660	231,312

Definitions

Membership is the unduplicated count of students on the roll of the school or local education agency on the school day closest to October 1; students who withdrew from school have been removed from the count. Unless otherwise specified, membership includes all students in prekindergarten through grade 12.

Teachers are professional staff who provide instruction to students and maintain daily student attendance figures for a group or class at any of the levels from prekindergarten through grade 12. Numbers of private school teachers include those for kindergarten through grade 12 only. Teacher numbers are reported in full-time equivalents (FTE), which are computed by dividing the amount of time employed in instruction by the time normally required of a full-time position.

Pupil-to-teacher ratio is the number of students divided by the number of teachers. The pupil-to-teacher ratio for public schools reported here represents an average across all levels. There is, however, variability across elementary and secondary grade levels and across programs such as special education and gifted and talented.

Graduates are defined as students receiving a regular high school diploma during the school year, including summer graduates. Early estimates are provided for the recent graduates from the 1989-90 school year, with projections for the 1990-91 school year.

Elementary schools enroll students in at least one of grades prekindergarten through grade 6, and have no students in grades 9 through 12.

Secondary schools enroll students in at least one of grades 7 through 12, and have no students in grades prekindergarten through grade 6.

Combined schools enroll students in at least one of grades prekindergarten through grade 6 and at least one of grades 9 through 12, or are ungraded.

Revenues are defined as additions to assets which do not incur an obligation that must be met at some future date, do not represent exchanges of fixed assets, and are available for expenditure by the local education agencies in the state. Revenues include funds from local, intermediate, state, and federal sources.

Current expenditures are funds spent for operating local public schools and include such items as salaries for school personnel, fixed charges, student transportation, school books and materials, and energy costs, but exclude capital outlay and interest on school debt.

Per pupil expenditure (or per pupil revenue) is the total current expenditure (or revenue) for public elementary and secondary education in a state divided by the student membership. The numbers reported here, based on membership, can be expected to be smaller than per pupil expenditures (and per pupil revenues) based on average daily attendance, because the membership counts are generally larger than average daily attendance.

For More Information

For information about the Public School Early Estimates System or the Common Core of Data, contact Frank Johnson, Office of Educational Research and Improvement, National Center for Education Statistics, 555 New Jersey Avenue NW, Washington, DC 20208-5651, telephone (202) 219-1618.

For information about the Private School Early Estimates System or the Private School Universe data collection system, contact Elizabeth Gerald, Office of Educational Research and Improvement, National Center for Education Statistics, 555 New Jersey Avenue NW, Washington, DC 20208-5651, telephone (202) 219-1334.

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